

CLAIMS

1. An analysis apparatus for irradiating detection light on an analysis disc having an analysis object disposed on a part thereof, and reading a state of the analysis object, wherein

the analysis disc (108) having a mark (110) is set in the apparatus, the mark being recorded over a radial direction of a reading area (109) at least in one of frontward and rearward positions of the reading area in a rotation direction, the reading area being disposed with the analysis object, and

the analysis apparatus comprises:

a pickup (103) for detecting the mark and detection light from the analysis object disposed on the set analysis disc, and

an image processor for performing video acquisition or shape count on the analysis object by performing video processing for aligning the analysis object and a reading signal of the mark by a time axis relative to a position of the mark, the analysis object and the reading signal of the mark being read in time series by the pickup that traces a track (101a).

2. An analysis disc (108) for reproducing and tracing on a pit or a groove and has a data region for controlling rotation of the disc and a reading area having an analysis object therein, wherein a mark (110) is recorded over a radial direction of the reading area (109) disposed with the analysis object, at least in one of frontward and rearward positions of the reading area in a rotation direction.

3. The analysis disc according to claim 2, wherein the mark (110) is formed as a pit (112a), a groove (112a), or a land (112b), or by printing (111), removing a mirror surface (118), or forming an odd shape (119).

4. The analysis disc according to claim 2, wherein the mark (110) is formed as a pit (112a), a groove (112a), or a land (112b) with a specific pattern different from the data region.

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5. The analysis disc according to claim 4, wherein the specific pattern of the mark (110) is varied according to a plurality of reading areas (109) each being disposed with the analysis object.

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6. The analysis disc according to claim 4, wherein the specific pattern of the mark (110) is varied according to a kind of the analysis object disposed in the reading area (109).

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7. An analysis apparatus for irradiating detection light on an analysis disc having an analysis object disposed on a part thereof, and reading a state of the analysis object, wherein

the analysis disc (108) having a mark (110) is set in the apparatus, the mark being recorded over a radial direction of a reading area (109) at least in one of frontward and rearward positions of the reading area in a rotation direction, the reading area being disposed with the analysis object, the mark having a different specific pattern according to a plurality of reading areas each being disposed with the analysis object, and

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the analysis apparatus comprises:

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a pickup (103) for detecting the mark and detection light from the analysis object disposed on the set analysis disc, and

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an image processor for performing video acquisition or shape count on the analysis object by performing video processing for aligning the analysis object and a reading signal of the mark by a time axis relative to a position of the mark, the analysis object and the reading signal of the

mark being read in time series by the pickup that traces a track (101a), and for managing a video processing result according to the specific pattern in association with the reading area.

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8. An analysis apparatus for irradiating detection light on an analysis disc having an analysis object disposed on a part thereof, and reading a state of the analysis object, wherein

10 the analysis disc (108) having a mark (110) is set in the apparatus, the mark being recorded over a radial direction of a reading area (109) at least in one of frontward and rearward positions of a reading area (109) in a rotation direction, the reading area being disposed with the analysis object, the  
15 mark having a different specific pattern varied according to a kind of the analysis object, and

the analysis apparatus comprises:

a pickup (103) for detecting the mark and detection light from the analysis object disposed on the set analysis disc,  
20 and

an image processor for performing video acquisition or shape count on the analysis object by performing video processing for aligning the analysis object and a reading signal of the mark by a time axis relative to a position of  
25 the mark, the analysis object and the reading signal of the mark being read in time series by the pickup that traces a track (101a), and for managing a video processing result according to the specific pattern in association with the kind of the analysis object disposed in the reading area.

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